



**TAKE BACK CONTROL OF YOUR  
ENERGY CONSUMPTION  
WITH FRONIUS SMART METERS**



# WHAT IS A SMART METER?

A Fronius Smart Meter is a bidirectional meter that optimises self-consumption, records load curves, controls energy flows and limits the amount of energy sent back to the grid.

The Fronius Smart Meter range is compatible with all Fronius Gen24 Plus inverters as well as all other Fronius inverters with the Fronius Datamanager 2.0. You can also use them with the Fronius Ohmpilot.

## FRONIUS SMART METER FOR ENERGY CONSUMPTION

The Fronius Smart Meter range allows system owners to record their energy consumption which is then graphically displayed in Fronius' free online portal, Solar.web. The intelligent system combines both the production and consumption data for the PV system enabling the system owner to better understand their energy usage, see where additional savings can be made and look at system additions such as battery storage.

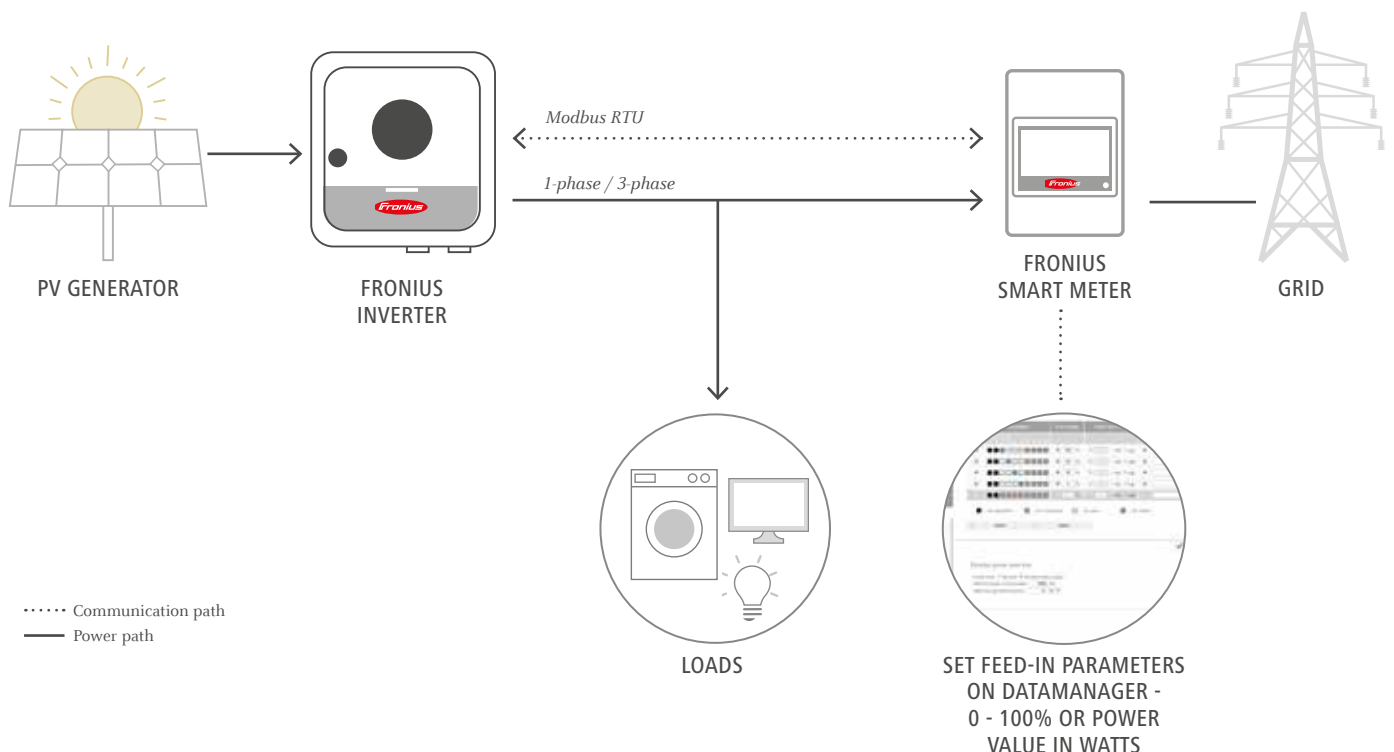
Potential system errors can also be identified, ensuring any issues are fixed quickly thus limiting the downtime of the system and loss of energy production.



## FRONIUS SMART METER FOR EXPORT LIMITATION

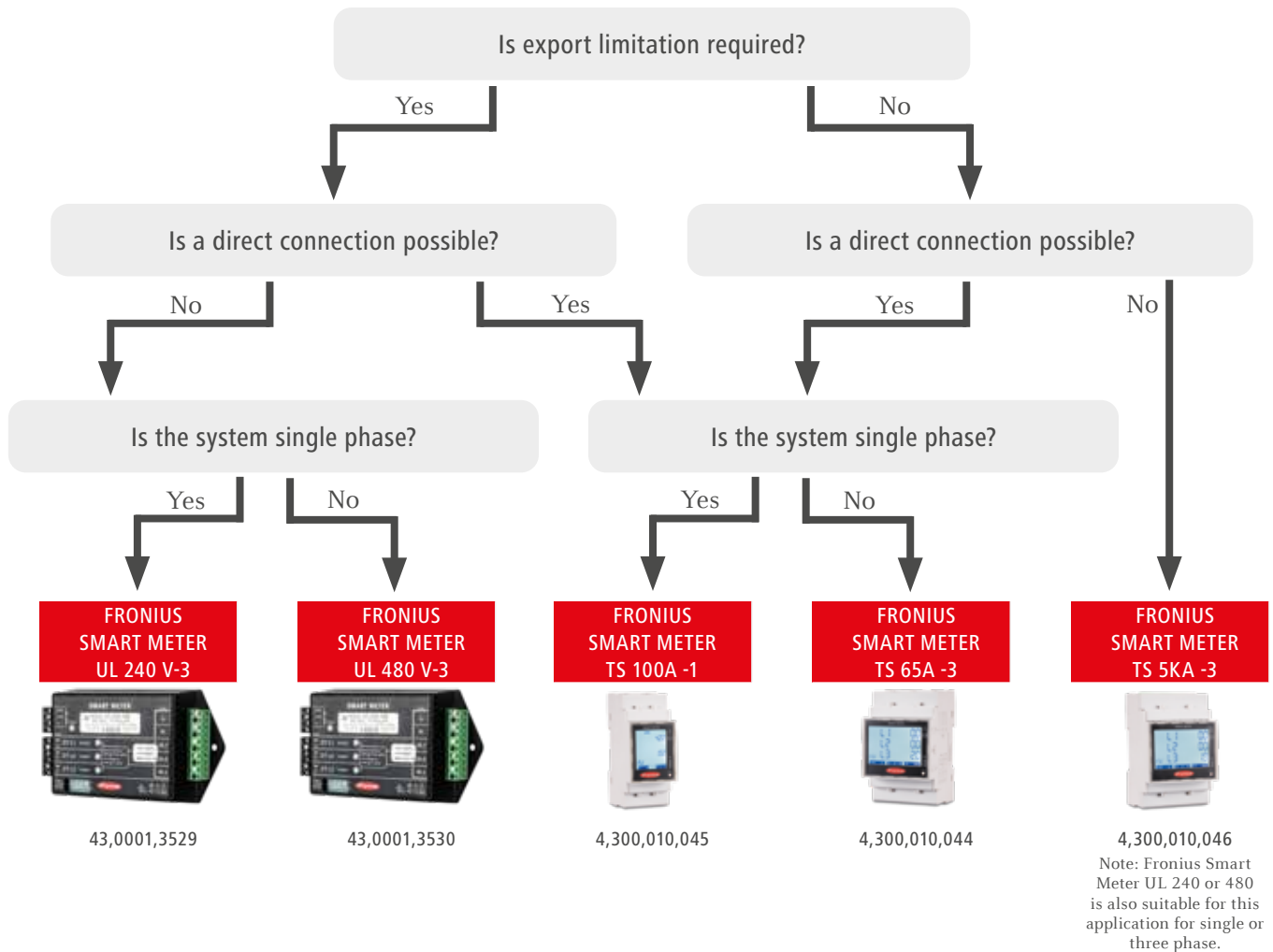
The Fronius Smart Meter range offers a simple and economical solution to export limitation and complies with current DNO requirements. The limitation is based on the inverter shifting its optimum operating point to adapt the output power to not exceed a predefined export value to the grid. This predefined value is set within a password protected area of the Fronius Datamanager web interface and is set in whole percentages from 0 - 100% or as a value in Watts.

## HOW DOES IT WORK?



# WHICH SMART METER DO I NEED?

To ensure you select the right smart meter for the job, use our helpful flow chart to lead you to the correct model.



## CT SELECTION

### / Voltage Type (0.333V)

For use with Fronius Smart Meter UL series  
 One CT for single phase Fronius Smart Meter UL 240  
 Three CT's for three phase Fronius Smart Meter UL 480

### / Current Type (5A)

For use with Fronius Smart Meter TS series  
 One CT for single phase installations  
 Three CT's for three phase installations

### / Direct Connection

Connect L and N directly through the Fronius Smart Meter  
 No CT's required  
 Requires site shut down for installation  
 Lowest cost option



# FRONIUS SMART METER OVERVIEW



	FRONIUS SMART METER TS 100A -1	FRONIUS SMART METER TS 65A -3	FRONIUS SMART METER UL 240 V-3	FRONIUS SMART METER UL 480 V-3	FRONIUS SMART METER TS 5KA -3	FRONIUS SMART METER 50KA -3
Article No	43,0001,0045	43,0001,0044	43,0001,3529	43,0001,3530	43,0001,0046	43,0001,1478
Phases	Single Phase	Three Phase	Single Phase	Three Phase	Single, Two & Three Phase	Single, Two & Three Phase
CT's Required*	N/A	N/A	1 x 0.333V	3 x 0.333V	1/2/3 x 5A	1/2/3 x 5A
100A			42,0449,0097	42,0449,0097	42,0449,0046	42,0449,0046
150A			42,0449,0098	42,0449,0098		
250A			42,0449,0099	42,0449,0099	42,0449,0085	42,0449,0085
400A			42,0449,0100	42,0449,0100	42,0449,0073	42,0449,0073
Export Limitation	•	•	•	•		
Energy Management Relay	•	•	•	•	•	•
Gen24 Plus / Hybrid	•	•	•	•	•	•
SnapInverter	•	•	•	•	•	•
Ohmpilot	•	•	•	•	•	•
AC Connection	Direct Connection	Direct Connection	6A Single Phase MCB	6A Three Phase MCB	6A Three Phase MCB	6A Three Phase MCB
Datamanger Firmware	3.15.X	3.15.X		3.12.X	3.15.X	3.07.X
Dimensions (W x H x D)	36 x 92 x 60 mm	54 x 92 x 60 mm	143 x 85 x 38 mm	143 x 85 x 38 mm	54 x 92 x 60 mm	89 x 71 x 66 mm
Mounting	Din Rail	Din Rail	Threaded Fastener	Threaded Fastener	Din Rail	Din Rail

\*Other CT sizes available upon request. • = compatible for

## GAIN EXPERT KNOWLEDGE DIRECTLY FROM THE MANUFACTURER

The complexity and professionalism of our industry is constantly growing. To be successful it is becoming increasingly important to stand apart from the competition with your PV and energy system expertise. That is why we have a range of courses to guide you through the energy revolution.

Our trainers are all experienced employees with a technical background and know our products and the market inside and out. We regularly run our structured, hands-on training courses, but we can also offer bespoke training courses to suit your requirements - on-site or at our training facility in Milton Keynes.



**CONTACT US**

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You can also find all our upcoming webinars on our website to further boost your knowledge.

/ Perfect Welding / Solar Energy / Perfect Charging

### THREE BUSINESS UNITS, ONE GOAL: TO SET THE STANDARD THROUGH TECHNOLOGICAL ADVANCEMENT.

What began in 1945 as a one-man operation now sets technological standards in the fields of welding technology, photovoltaics and battery charging. Today, the company has around 5,440 employees worldwide and 1,264 patents for product development show the innovative spirit within the company. Sustainable development means for us to implement environmentally relevant and social aspects equally with economic factors. Our goal has remained constant throughout: to be the innovation leader.

Further information about all Fronius products and our global sales partners and representatives can be found at [www.fronius.com](http://www.fronius.com)

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